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AF140-40-11-11

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General Information

Extended Product Type:

AF140-40-11-11

Product ID:

1SFL447101R1111

EAN:

7320500503768

Catalog Description:

AF140-40-11-11 Contactor

Long Description:

The AF140-40-11-11 is a 4 pole - 690 V IEC or 600 V UL contactor with pre-mounted auxiliary contacts and double clamp, controlling motors up to 75 kW / 400 V AC (AC-3) / and switching power circuits up to 200 A (AC-1) or 175 A UL general use. Thanks to the AF technology, the contactor has a wide con... [Show more](#)

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Ordering**Minimum Order Quantity:**

1 piece

Customs Tariff Number:

85364900

Popular Downloads**Data Sheet, Technical Information:**

[1SBC100214C0202 - Main catalog.Motor protection and control Manual motor starters, contactors and overload relays \(PDF\) - Edition 2024](#)

Data Sheet, Technical Information (Part 2):

[Contactors and Overload relays guide](#)

Instructions and Manuals:

[Operating instruction, Contactor, AF\(S\)116, AF140, AF\(S\)146](#)

CAD Dimensional Drawing:

[Information - 2D and 3D files for CAD systems](#)

Dimension Diagram:

[Dimension Drawing, Contactor, AF116, AF140, AF146](#)

Dimensions**Product Net Width:**

120 mm

Product Net Depth / Length:

128 mm

Product Net Height:

150 mm

Product Net Weight:

2.05 kg

Technical**Number of Main Contacts NO:**

4

Number of Main Contacts NC:

0

Number of Auxiliary Contacts NO:

1

Number of Auxiliary Contacts NC:

1

Number of Poles:

4P

Rated Operational Voltage:

Main Circuit 690 V

Rated Frequency (f):

Main Circuit 60 Hz

Conventional Free-air Thermal Current (I_{th}):acc. to IEC 60947-4-1, Open Contactors $\Theta = 40\text{ °C}$ 200 A**Rated Operational Current AC-1 (I_e):**

(690 V) 40 °C 200 A

(690 V) 60 °C 175 A

(690 V) 70 °C 160 A

Rated Operational Current AC-3 (I_e):

(415 V) 55 °C 140 A

(440 V) 55 °C 140 A

(380 / 400 V) 55 °C 140 A

(220 / 230 / 240 V) 55 °C 140 A

Rated Operational Power AC-3 (P_e):

(415 V) 75 kW

(440 V) 90 kW

(380 / 400 V) 75 kW

(220 / 230 / 240 V) 37 kW

Rated Breaking Capacity AC-3:8 x I_e AC-3**Rated Making Capacity AC-3:**10 x I_e AC-3**Short-Circuit Protective Devices:**

gG Type Fuses 250 A

Rated Short-time Withstand Current Low Voltage (I_{cw}):

at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 1168 A

at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 200 A

at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 477 A

at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 1460 A

at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 674 A

Maximum Breaking Capacity:cos $\phi=0.45$ (cos $\phi=0.35$ for $I_e > 100$ A) at 440 V 3000 A**Rated Insulation Voltage (U_i):**

acc. to IEC 60947-4-1 and VDE 0110 (Gr. C) 1000 V

acc. to UL/CSA 600 V

Rated Impulse Withstand Voltage (U_{imp}):

Main Circuit 8 kV

Maximum Electrical Switching Frequency:

(AC-1) 300 cycles per hour

Mechanical Durability:

5 million



Maximum Mechanical Switching Frequency:

300 cycles per hour

Coil Operating Limits:

(acc. to IEC 60947-4-1) 0.85 x U_c Min. ... 1.1 x U_c Max. (at $\theta \leq 70$ °C)

Rated Control Circuit Voltage (U_c):

50 Hz 24 ... 60 V

60 Hz 24 ... 60 V

DC Operation 20 ... 60 V

Coil Consumption:

Holding at Max. Rated Control Circuit Voltage 50 Hz 5.5 V·A

Holding at Max. Rated Control Circuit Voltage 60 Hz 5.5 V·A

Holding at Max. Rated Control Circuit Voltage DC 2.5 W

Pull-in at Max. Rated Control Circuit Voltage 50 Hz 225 V·A

Pull-in at Max. Rated Control Circuit Voltage 60 Hz 225 V·A

Pull-in at Max. Rated Control Circuit Voltage DC 210 W

Power Loss:

at Rated Operating Conditions per Pole 18 W

Operate Time:

Between Coil De-energization and NO Contact Opening 40 ... 70 ms

Between Coil Energization and NO Contact Closing 20 ... 55 ms

Connecting Capacity Main Circuit:

Flexible 2 x 10 ... 70 mm²

Rigid Cu-Cable 2 x 10 ... 95 mm²

Connecting Capacity Auxiliary Circuit:

Flexible with Ferrule 2x 0.75 ... 2.5 mm²

Flexible with Insulated Ferrule 2x 0.75 ... 2.5 mm²

Flexible 2x0.75 ... 2.5 mm²

Solid 1 x 1 ... 4 mm²

Stranded 2 x 1 ... 4 mm²

Degree of Protection:

acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20

acc. to IEC 60529, IEC 60947-1, EN 60529 Main Terminals IP00

Tightening Torque:

Cable Lug 9 N·m

Main Circuit 8 N·m

Terminal Type:

Double Clamp

Product Name:

Block Contactor

Technical UL/CSA**NEMA Size:**

4

Horsepower Rating NEMA:

(200 V AC) Three Phase 40 Hp

(230 V AC) Three Phase 50 Hp

(460 V AC) Three Phase 100 Hp

(575 V AC) Three Phase 100 Hp

Maximum Operating Voltage UL/CSA:

Main Circuit 600 V

General Use Rating UL/CSA:

(600 V AC) 200 A

Horsepower Rating UL/CSA:

(200 ... 208 V AC) Three Phase 15 Hp
(200 V AC) Three Phase 40 hp
(208 V AC) Three Phase 40 hp
(220 ... 240 V AC) Three Phase 20 Hp
(220 ... 240 V AC) Three Phase 50 hp
(440 ... 480 V AC) Three Phase 40 Hp
(440 ... 480 V AC) Three Phase 100 hp
(550 ... 600 V AC) Three Phase 50 Hp
(550 ... 600 V AC) Three Phase 125 hp

Environmental

Ambient Air Temperature:

Close to Contactor Fitted with Thermal O/L Relay (0.85 ... 1.1 Uc) -25 ... 50 °C
Close to Contactor without Thermal O/L Relay (0.85 ... 1.1 Uc) -40 ... 70 °C
Close to Contactor for Storage -40 ... 70 °C

Maximum Operating Altitude Permissible:

Without Derating 3000 m

Material Compliance

Conflict Minerals Reporting Template (CMRT):

[CMRT - Conflict Minerals Reporting Template](#)

REACH Declaration:

[REACH - Letter of Confirmation for block contactors, contactor relays, installation contactors, mini contactors, mini contactor relays, thermal overload relays, electronic overload relays and related accessories](#)

RoHS Information:

[RoHS II declaration for block contactors, installation contactors, mini contactors, mini contactor relays, thermal overload relays, electronic overload relays and related accessories](#)

RoHS Status:

Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019

Toxic Substances Control Act - TSCA:

[Toxic Substances Control Act \(TSCA\) declaration for Contactors](#)

WEEE B2C / B2B:

Business To Business

WEEE Category:

5. Small Equipment (No External Dimension More Than 50 cm)

ABB EcoSolutions

ABB EcoSolutions:

Yes

ABB Site Meeting Group Waste To Landfill Target:

Non-hazardous waste is sent to a landfill, where there is no alternative option available within 100km of a facility

End Of Life Disassembling Instructions:

[End-of-life instruction - AF\(S\)116\(B\)-**\(RT\) to AF\(S\)205\(B\)-**\(RT\)](#)

Environmental Product Declaration - EPD:

[Environmental Product Declaration, AF\(S\)116-AF\(S\)146 \(SE\) Contactors](#)

Improved Energy Efficiency for Customers:

Product Efficiency - Product requires less energy to operate compared to similar product on market or older products from the same line

Recyclability Rate of the Product acc. to EN45555:

Design for Closing Resource Loops - Standard EN45555 - 87.8 %

Sustainable Material Content in Product (wt. %):



Recycled Metal - 37 %

Certificates and Declarations

ABS Certificate:

[ABS Approval, Contactor, AF116 ... AF370 \(Sweden\)](#)

BV Certificate:

[BV Certificate, Contactor, AF116-30 ... AF370-30...AF116-40...AF370-40](#)

CB Certificate:

[SEMKO_SE-77317](#)

CQC Certificate:

[CQC Certificate, AC Contactor, AF116-*-*-, AF140-*-*-, AF146-*-*-, AF116B-*-*-, AF140B-*-*-, AF146B-*-*-, AFS116-30-*-*-, AFS140-30-*-*-, AFS146-30-*-*-, Made in Sweden](#)

Declaration of Conformity - CCC:

[CCC Declaration of Conformity, AC Contactor, AF116-*-*-, AF140-*-*-, AF146-*-*-, AF116B-*-*-, AF140B-*-*-, AF146B-*-*-, AFS116-30-*-*-, AFS140-30-*-*-, AFS146-30-*-*-, Made in Sweden](#)

Declaration of Conformity - CE:

[CE Declaration of Conformity - Contactor - AF116B...RT to AF370B...RT](#)

Declaration of Conformity - UKCA:

[UK Declaration of Conformity - Contactors >100A](#)

DNV GL Certificate:

[DNV-certificate, Contactors, AF116-30...AF370-30 and AF116-40...AF370-40](#)

EAC Certificate:

[9AKK107046A8618](#)

KC Certificate:

[KC Certificate, Contactor, AF116-40...AF140-40 \(Sweden\)](#)

LR Certificate:

[Lloyds register Certificate, Contactor, AF116-30 ... AF370-30, AF116-40...AF370-40](#)

PRS Certificate:

[PRS Certificate - AF116...AF1650](#)

RINA Certificate:

[RINA Certificate, AF95, AF110, AF145, AF185, AF210, AF260, AF300, AF400, AF460, AF580, AF750, AF1250, AF1350, AF1650, AF2050, AF2650, AF116, AF140, AF146, AF190, AF205, AF265, AF305, AF370](#)

RMRS Certificate:

[9AKK107045A6978](#)

UL Certificate:

[cULus Certificate, Contactor, AF116-40, AF140-40 \(4-pole\)](#)

Container Information

Package Level 1 Units:

box 1 piece

Package Level 1 Width:

147 mm

Package Level 1 Depth / Length:

197 mm

Package Level 1 Height:

155 mm

Package Level 1 Gross Weight:

2.25 kg

Package Level 1 EAN:

7320500503768

External Classifications and Standards

Object Classification Code:

Q

ETIM 7:

EC000066 - Power contactor, AC switching

ETIM 8:

EC000066 - Power contactor, AC switching

ETIM 9:

EC000066 - Power contactor, AC switching

eClass:

V11.0 : 27371003

UNSPSC:

39121529

IDEA Granular Category Code (IGCC):

4758 >> Iec Contactors

E-Number (Finland):

3706082

E-Number (Norway):

4117778

E-Number (Sweden):

4117778

Accessories

Filters

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12 Products

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Identifier	Description	Type	Qty	Unit Of Measure	Actions
<u>1SFN010820R1011</u>	CAL19-11 Auxiliary Contact Block	CAL19-11	1	piece	
<u>1SFN010820R3311</u>	CAL19-11B Auxiliary Contact Block	CAL19-11B	1	piece	
<u>1SFN010832R1001</u>	CEL19-01 Auxiliary Contact Block	CEL19-01	1	piece	
<u>1SFN010832R1010</u>	CEL19-10 Auxiliary Contact Block	CEL19-10	1	piece	
<u>1SFN074208R2000</u>	LD146-40 Connection Module	LD146-40	1	piece	

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